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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,685	09/28/2005	Anders Lundstrom	2466-133	5047

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EXAMINER

FIGUEROA, MARISOL

ART UNIT	PAPER NUMBER
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2617

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/533,685	Applicant(s) LUNDSTROM ET AL.	
	Examiner Marisol Figueroa	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 September 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Information Disclosure Statement

2. The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

Claim Objections

3. Claims 5, 10, and 15 are objected to under 37 CFR 1.75(c) as being in improper form because multiple dependent claims 4, 9, and 14. See MPEP § 608.01(n). Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 1, 2, 5, 6, 10, 11, 12, 15** are rejected under 35 U.S.C. 102(b) as being anticipated by MILLER et al. (US 5,956,644).

Regarding claims 1 and 6, Miller discloses a method of updating the location of a plurality of mobile stations (107) in a moving craft or vehicle, wherein a common terminal (103) (abstract lines 1-10, MCU) in the craft or vehicle provides a communication interface between the mobile stations and a satellite communication system (101) (col.2 lines 45-48 and col.3 lines 9-11), characterized by the steps of:

A) transmitting an initial location updating message to the satellite system (101) each time a mobile station (107) is attached to the common terminal (col.1 lines 55-63) , wherein the initial location updating message includes an identity of the common terminal (103) and an identity of the attached mobile station (one of ordinary skill in the art would recognize that it is inherent that in a

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registration procedure subscriber registration information is sent to the communication system, e.g., MIN or IMSI of the mobile device),

B) storing in the satellite system (101) information on the mobile stations (107) currently being attached to the common terminal (103) based on the transmitted initial location updating message (col. 4 lines 62-67 and col.5 lines 1-4), and

C) transmitting a location updating message from the common terminal (103) to the satellite system including the identity of the common terminal to the satellite system (101) including the identity of the common terminal (103) (col.8 lines 34-38 and col. 13 lines 3-20, the MCU can re-register each one of the subscribers with the communication system, the MCU sends registration information from the subscribers to the satellite system that identifies the user such as information stored in a subscriber information module (SIM), it is known in the art that inherently besides subscriber information, registration to a communication system is accompanied with location information of the user, and the location of the user may be registered via a location update procedure),

wherein the satellite system (101) derives the new location for each of the attached mobile stations (107) based on the location updating message transmitted in step C) and the information stored in step B) (one of ordinary skill in the art would recognize that is inherent that the satellite system can derive the new location for each of the attached mobile station since in a location update procedure the mobile station notify the satellite system of its location within the geographic region, e.g., Pub. No. US 2001/0014605, this reference is used for definition purposes only).

Regarding claim 11, Miller discloses a common terminal (103) for updating the location of a plurality of mobile stations (107) in a moving craft or vehicle (col.3 lines 31-33), wherein the common terminal provides an interface between the mobile stations (107) and a satellite

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communications system (101) (col.1 lines 37-41 and col.3 lines 38-43), characterized in that the common terminal comprises:

means for transmitting an initial location updating message to the satellite system (101) each time a mobile station (107) is attached to the common terminal (103) (col.3 lines 10-12), wherein the initial location updating message includes the identity of the attached mobile station (107) and

means for transmitting a location updating message from the common terminal (103) to the satellite system (101) (col.3 lines 10-12) comprising the identity of the common terminal (103) when a location update is required. (In addition see the remarks about claim 1 above).

Regarding claim 2, 7 and 12, Miller discloses a method and system according to claims 1, 6, and 11, characterized in that the location updating message of step C) is transmitted when the common terminal (103) enters a new location area, wherein the location updating message is valid for all mobile stations (107) currently being attached to the common terminal (103) (col.10 lines 28-32, col.8 lines 34-38 and col. 13 lines 3-20, re-registration occurs when mobile stations moves to a new service area).

Regarding claims 5, 10 and 15, Miller discloses a method and system according to any of claims 1-4, 6-9, and 11-14, characterized in that the mobile stations (107) are attached to the common terminal (103) by using any of: a wireline connection, an Infrared (IR) connection and a Bluetooth connection (Fig.2 and col.6 lines 50-55, the subscribers are connected to the MCU 110 by links 245 and 235, these links can be hard-wired or RF).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 3, 8 and 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over MILLER et al. in view of LINDVALL et al. (US 2001/0014605).

8. **Regarding claim 3, 8 and 13**, Miller discloses a method and system according to claims 1, 6, and 11, characterized in transmitting a location updating message valid for all mobile stations (107) currently being attached to the common terminal (103), however doesn't expressly disclose that the location updating message of step C) is transmitted periodically. Lindvall teaches that it is well known in the art of the transmission of location update messages periodically (p.0006 lines 24-27). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made that location update messages are transmitted periodically if a mobile station operates in a particular location for some period of time or to update the location if the mobile station is moving.

9. **Claims 4, 9 and 14** are rejected under 35 U.S.C. 103(a) as being unpatentable over MILLER et al. in view of SINIVAARA (US 6,055,425).

Regarding claims 4, 9 and 14, Miller discloses method and system according to any of claims 1-3, 6-8, and 11-13, but doesn't expressly disclose wherein the common terminal (103) supports mobile stations (107) according to the GSM standard, characterized in that the identity of the common terminal is an IMSI of the common terminal and the identities of the attached mobile stations are IMSIs of the respective attached mobile stations. Sinivaara discloses a communication system in an aircraft that support the use of cellular telephone systems such as GSM inside an aircraft (col.1 lines 1-6), a plurality of users within an aircraft are able to transmit and receive

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telephone messages through an Aeronautical Earth Station which communicates through a satellite to a Ground Earth Station (col.2 lines 14-17). It is well known in the art that a GSM network uses the IMSI (International Mobile Subscriber Identity) to identify an individual user. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a communication system inside an aircraft that support the use of GSM phones in order for passengers preferring to use their personal telephone terminal can use it and register to the system using its individual IMSI number that identifies the user in the GSM network.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marisol Figueroa whose telephone number is (571) 272-7840. The examiner can normally be reached on Monday Thru Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G. Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Marisol Figueroa
Art Unit 2617


LESTER G. KINCAID
SUPERVISORY PRIMARY EXAMINER